

Title (en)
INTEGRATED AIR CONDITIONER

Title (de)
INTEGRIERTE KLIMAAANLAGE

Title (fr)
CLIMATISEUR INTÉGRÉ

Publication
EP 3153782 A1 20170412 (EN)

Application
EP 14893973 A 20140605

Priority
KR 2014004996 W 20140605

Abstract (en)
An integrated air conditioner comprises: a housing partitioned into a first housing on the upper side thereof and a second housing on the lower side thereof, wherein the first housing has a first intake port through which external air is introduced thereto and a first exhaust port through which internal air is exhausted therefrom, and the second housing has a second intake port through which external air is introduced thereto and a second exhaust port through which internal air is exhausted therefrom; a compressor provided in the interior of the housing to compress a refrigerant; a condenser that is provided on a second fluid channel, which connects the second intake port and the second exhaust port, and condenses the compressed refrigerant, supplied from the compressor, into a liquid phase; an expansion unit that expands the refrigerant, condensed in the condenser, into a low-pressure refrigerant; and an evaporator that is provided on a first fluid channel, which connects the first intake port and the first exhaust port, to correspond to the upper end of the condenser and returns the low-temperature and low-pressure refrigerant, supplied from the expansion unit, to the compressor. Therefore, the integrated air conditioner can be made compact and portable, thereby offering convenience.

IPC 8 full level
F24F 1/0323 (2019.01)

CPC (source: EP US)
F24F 1/00 (2013.01 - US); **F24F 1/022** (2013.01 - EP US); **F24F 1/0323** (2019.02 - EP US); **F24F 1/04** (2013.01 - EP US); **F24F 13/20** (2013.01 - US); **F24F 13/222** (2013.01 - EP US); **F24F 2013/225** (2013.01 - EP US)

Cited by
EP4043806A4; WO2021134888A1; WO2023111530A1; WO2023132751A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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EP 3153782 A1 20170412; **EP 3153782 A4 20180117**; CN 106461238 A 20170222; CN 111895518 A 20201106; EP 3786535 A2 20210303; EP 3786535 A3 20210505; US 11204180 B2 20211221; US 11940162 B2 20240326; US 2017167737 A1 20170615; US 2020393141 A1 20201217; US 2022074606 A1 20220310; WO 2015186850 A1 20151210

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